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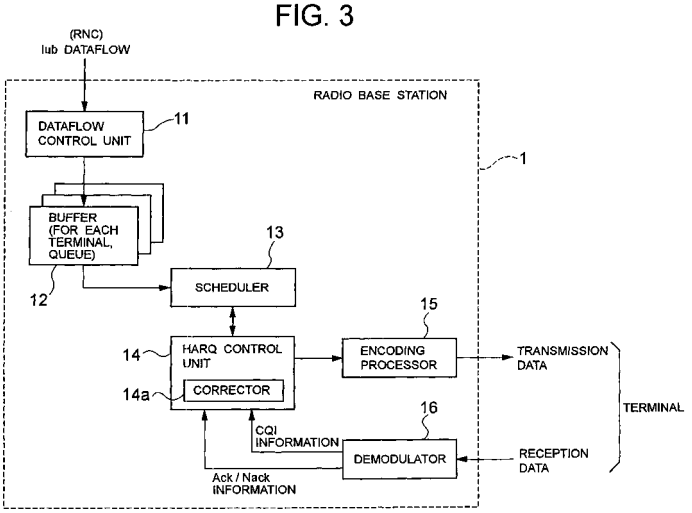
(54) Radio communication system, base station, method of correcting radio link quality information employed therefor, and its program

(57) A mobile communication system is provided which is capable of preventing a reduction in user throughput and system throughput. In a radio base station, a dataflow control unit (11) controls an Iub dataflow from an RNC, a buffer (12) stores the dataflow for each terminal in each corresponding queue, and a scheduler (13) schedules the dataflow. An HARQ control unit (14) controls retransmission of the dataflow and corrects CQI report values received from a terminal at a corrector (14a). An encoding processor (15) encodes the dataflow, and a demodulator (16) demodulates data received from the terminal. After the demodulation of the data received from the terminal, the demodulator sends CQI information and Ack/Nack information to the HARQ control unit. The corrector in the HARQ control unit then corrects the CQI report value in accordance with these received CQI information and Ack/Nack information. Thus the radio link quality is corrected in accordance with an expectation value of the packet error rate of packet data transmitted to the mobile station and the packet error rate of packet data actually received by the mobile station.

FIG. 3



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EUROPEAN SEARCH REPORT

Application Number
EP 04 25 1714

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 1 227 603 A (MATSUSHITA ELECTRIC IND CO LTD [JP]) 31 July 2002 (2002-07-31) * column 8, line 4 - column 9, line 18 * * column 17, line 34 - column 18, line 52 * * column 19, line 8 - line 45; figures 2,3,8 * -----	1,2,6-9, 11-14, 18-20	INV. H04L1/20
E	EP 1 513 282 A (FUJITSU LTD [JP]) 9 March 2005 (2005-03-09) * page 3, line 11 - line 40 * * page 4, line 31 - line 37 * * page 11, line 8 - page 12, line 33 * -----	1,2,6-9, 11-14, 18-20	
			TECHNICAL FIELDS SEARCHED (IPC) H04L

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	31 October 2007	Papantoniou, Antonis

CATEGORY OF CITED DOCUMENTS

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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31-10-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1227603 A	31-07-2002	AU 7878401 A	04-03-2002
		CN 1389031 A	01-01-2003
		CN 1533053 A	29-09-2004
		WO 0217513 A1	28-02-2002
		JP 3821636 B2	13-09-2006
		JP 2002064424 A	28-02-2002
		US 2003022629 A1	30-01-2003
		US 2006094367 A1	04-05-2006
EP 1513282 A	09-03-2005	JP 2005086304 A	31-03-2005
		US 2005053038 A1	10-03-2005

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